



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3,
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Facsimile: (716) 297-2265
www.CRAworld.com

May 6, 2011

Reference No. 056393

US EPA RECORDS CENTER REGION 5



421847

Mr. Michael Berkoff
Remedial Project Manager
USEPA - Region V
77 West Jackson Boulevard (SR - 6J)
Chicago, IL 60604 - 3590

Dear Mr. Berkoff:

Re: Operation, Maintenance & Monitoring Plan
12th Street Landfill Operable Unit No. 4
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Allegan and Kalamazoo County

On behalf of Weyerhaeuser NR Company (Weyerhaeuser), Conestoga-Rovers & Associates (CRA) has prepared this Operation, Maintenance, and Monitoring (OM&M) Plan for the 12th Street Landfill Operable Unit No. 4 (OU4), located at 481 12th Street North, in Plainwell, Michigan (Site) in fulfillment of one of the requirements of the United States Environmental Protection Agency (USEPA) Consent Decree (CD) (Civil Action No. 1:05-CV0003) dated January 3, 2005.

In accordance with the CD, the OM&M Plan will provide the methodologies to be followed for the operation, maintenance and long-term monitoring of the remedy set forth in the OU4 Record of Decision (ROD), OU4 Scope of Work (SOW), OU4 Remedial Action Work Plan (RAWP), and for the achievement of the OU4 Performance Standards.

Should you have any questions on the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Gregory A. Carli, P.E.

GAC/cs/1
Encl.

Equal
Employment Opportunity
Employer

REGISTERED COMPANY FOR
ISO 9001
ENGINEERING DESIGN



**CONESTOGA-ROVERS
& ASSOCIATES**

May 6, 2011

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Reference No. 056393

cc: J. Saric (U.S. EPA)
L. Kirby-Miles (U.S. EPA)
R. Frey (U.S. EPA)
S. Hutsell (CH2MHILL)
P. Bucholtz (MDEQ)
K. Zakrzewski (MDEQ)
J. Keiser (CH2M Hill)
J. Dembowski (CRA)
A. Stadnyk (CRA)

R. Gay (Weyerhaeuser)
M. Lebo (Weyerhaeuser)
J. Jackowski (Weyerhaeuser)
M. Erickson (Arcadis)
D. Penniman (Arcadis)
G. Griffith (Georgia-Pacific LLC)

ATTACHMENT A

OCTOBER 21, 2002 LETTER FROM U.S. EPA PROVIDING APPROVAL OF CRA'S QUALITY
SYSTEM MANUAL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604

Rec'd CRA

NOV - 1 2002

SR-6J
Tel: (312)886-7251
clarke.rosita@epa.gov

VIA Electronic mail/Regular Mail

TO: → Krista Hoerner

October 21, 2002

Ian Richardson
Conestoga Rovers & Associates (CRA)
651 Colby Drive
Waterloo, Ontario, Canada
N2V 1C2

Re: **Lammers Barrel Site, Beavercreek, Ohio**
Quality Management Plan(QMP)

Dear Mr. Richardson:

The U.S. Environmental Protection Agency (U.S. EPA) received the Quality System Manual for Conestoga-Rovers & Associates (CRA) as required under Section VIII of the Administrative Order V-W-02-C686 dated April 9, 2002 for the Lammers Barrel Site.

The QMP was reviewed by Ms. Ida Levin from US EPA's Field Services Section. Initial review comments were provided to you on July 2, 2002 requiring additional information. This information was subsequently submitted to EPA by CRA. Based on EPA's review, CRA's Quality System Manual is consistent with, and meets EPA's requirements under ANSI/ASQC E4-1994.

CRA's Quality System Manual has been placed in Region 5's Records Center under the Confidential Business Information records. For future reference, CRA may refer to this document submitted for the Lammers Site. If you wish to discuss further or have questions, please contact me at (312) 886-7251 or Ms. Ida Levin at (312)886-6254.

Sincerely,

Rosita Clarke-Moreno
Project Manager

Enclosure

cc: Susan Franzetti
Ida Levin

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590**

SRT-4J

MEMORANDUM

DATE: August 20, 2002

SUBJECT: Review of the Revision of Conestoga- Rovers & Associates (CRA)
Quality System Manual for the Lammers Barrel Site, Beavercreek,
OH

FROM: Ida Levin, Quality Assurance Team Leader
Field Services Section (FSS)

TO: Rosita Clarke-Moreno, RPM

I have reviewed the Revision CRA Quality System Manual. The document was received by FSS on August 5, 2002 (SF Log-in No.2921).

The revised CRA Quality System Manual describes the quality system which is in compliance with EPA requirements.

ATTACHMENT B

CONTACT INFORMATION

CONTACT INFORMATION

Richard Gay
Weyerhaeuser Company
810 Whittington Ave.
Hot Springs, AR 71901
Business: (501) 624-8554
Email: richard.gay@weyerhaeuser.com

Marvin Lewallen
Weyerhaeuser Company
9205 SW Gemini Dr., Suite A
Beaverton, OR 97070
Business: (503) 582-8881
Cell: (503) 310-2615
Email: Marvin.Lewallen@weyerhaeuser.com

Gregory A. Carli
Conestoga-Rovers & Associates
261 Martindale Road, Unit 3
St. Catharines, ON L2W 1A2
Business: (905) 682-0510
Cell: (905) 687-1402
Email: gcarli@craworld.com

Glenn Turchan
Conestoga-Rovers & Associates
651 Colby Drive
Waterloo, ON N2V 1C2
Business: (519) 884-0510
Email: gturchan@craworld.com

ATTACHMENT C

CURRICULUM VITAE

GREGORY A. CARLI, P. Eng., P.E.

EDUCATION

B.A.Sc. Civil Engineering, Water Resources Option, University of Waterloo, 1996

EMPLOYMENT

2008- Present Project Manager/Vice President/Principal/Principal-in-Charge of CRA Institute
Conestoga-Rovers & Associates

2007-08 Project Manager/Vice President/Principal, Conestoga-Rovers & Associates

2004-07 Associate/Project Manager, Conestoga-Rovers & Associates

2000-04 Project Manager, Conestoga-Rovers & Associates

1998-99 Project Coordinator/Engineer, Conestoga-Rovers & Associates

1996-98 Engineering Assistant, Conestoga-Rovers & Associates

AFFILIATION

Registered Professional Engineer (Civil/Environmental) - Colorado (#42260), Connecticut (#0026637), Georgia (#033395), Indiana (#10809717), Iowa (#18916), Kansas (#20149), Maryland (#36139), Michigan (#6201047393), North Carolina (#034631), North Dakota (#6137), Ohio (#73332), Wyoming (#11855)

Association of Professional Engineers of Ontario

Southeast Michigan Sustainable Business Forum Member

PROFILE OF PROFESSIONAL ACTIVITIES AND PROJECT EXPERIENCE

Sustainability Services

Sustainability Consultant/Project Engineer for the following projects/clients:

- Assisted a global metals manufacturer in the development of internal processes for preparing its first CSR report, to G3 level C+, and participating in the review and verification of performance data
- Carbon strategy advice to leading US rail transportation company
- Climate change/carbon business risk assessment for global metals manufacturing company, for sites in the UK, France and Germany. Included cost-benefit analysis of on-site renewables
- Conducted a carbon footprint/GHG inventory under the U.S. EPA Climate Leaders protocol for an environmental consulting and construction company
- Development of a corporate sustainability policy/program for a large environmental consulting and construction company

Training/Seminars

Project manager, course developer, and/or instructor for the following courses provided the CRA Institute:

- "Carbon/Greenhouse Gas Emissions Accounting and Management" a two-day training course offered throughout North America

- "An Introduction to Sustainability and CRA's Sustainable Solutions Group" web based seminar
- "Sustainability - Drivers, Case Studies, and Opportunities" web based seminar
- "Sustainable Development and Corporate Social Responsibility" web based seminar

Environmental Engineering

Environmental Engineer responsible for one or more of the following: site investigation, site characterization, feasibility studies, remedial design, contract document and specification preparation, and construction supervision for the following projects/clients:

- Project Manager for Superfund remediation of a former automotive parts facility in Allegan, Michigan, including implementation of an off-site emergency PCB removal action, CERCLA Remedial Design/Remedial Action to address PCB impacted soils and LNAPL including a soil-bentonite wall containment system with permeable reactive barrier gates, and preparation and implementation of various work plans to collect additional environmental and geotechnical data to supplement U.S. EPA RI/FS
- Project Manager for PCB time critical Removal Action, including PCB impacted soil excavation and removal and PCB containing free-phase oil recovery system installation and operation, at a former ball bearings facility located in Bristol, Connecticut
- Project Manager for a PCB Emergency Response Removal Action which included the design, implementation, and operation of oil collection and treatment system for the collection of PCB containing oils in Northville, Michigan
- Project Manager for several groundwater contaminant investigations and modelling at several active and former automotive facilities
- Project Manager for the oversight of time critical PCB containing liquid and solid hazardous waste removal, decontamination, and disposal at a RCRA TSDF in Detroit, Michigan
- Conducted Building Decommissioning Assessments on several facilities including automotive facilities, former foundry, and warehouse building
- Project Manager for RCRA Corrective Action activities at a former automotive parts complex in Anderson, Indiana, including management of RCRA Facility Investigation, Interim Measure implementation, UST removal, Corrective Measures development and implementation and related activities to address TCE groundwater contaminant plumes
- Project Manager for the investigation and remediation of a former automotive parts complex in Anderson, Indiana under the Indian State Cleanup Program, including LUST cleanup, impacted soil removal, and in situ chemical oxidation to address TCE impacted groundwater
- Project Manager for the investigation and RCRA Corrective Action of a former transmission manufacturing facility and former battery plant in Muncie, Indiana under the Indiana Voluntary Remediation Program
- Project Manager for the investigation and remediation of an AST area at an automotive assembly plant in Wilmington, Delaware to address BTEX soil and groundwater impacts
- Project Manager for the investigation of a former oil recovery facility under the State Part 201 Program in Northville, Michigan
- Assisted two TSD facilities in the Detroit, Michigan area with preparation and submittal of RCRA Part B Operating Permit Applications
- Project Coordinator/Manager for the design and implementation of a PCB contaminated soil cleanup for a former gravel extraction and disposal site in Ypsilanti, Michigan

- Assisted in the engineering oversight and implementation of contaminated sediment remediation project of former sludge lagoon, creek, and two stormwater retention/fire ponds
- Manager for several Phase I and II Environmental Assessments and Baseline Environmental Assessment (Michigan) for acquisition of various property including, Scrap Metal Recycling Facilities, Automotive Parts Manufacturers, Beverage Recycling Facility, Carbide Manufacturing Facility
- Conducted an air emissions inspection and associated reporting for automotive manufacturing facilities. Activities included identification of all air emissions sources, field measurements of air emissions sources, detailed review of historic air evaluation data, and technical review of processes contributing to air contamination
- Participated in site reconnaissance visits in conjunction with remedial design efforts at various facilities
- Conducted oversight activities of drum removal contractor, activities included: documentation of project progress, inspection of completed works, liaison with regulatory oversight personnel, and insuring health and safety procedures and protocols were followed by site personnel

PAPERS AND PRESENTATIONS

- "Site Reuse/Brownfield Redevelopment in the Detroit Empowerment Zone" technical paper presented (by K. West) at Superfund XVIII Conference, Washington, D.C., December 4, 1997 (co-authors(K. West, B. Pitlock, K. Richards, G. Turchan, S. Anderson)
- "Center Point Business Campus Redevelopment", presentation at Industrial Site Recycling Conference – Phoenix Award Finalist, Pittsburgh, Pennsylvania, April 14, 1998 (presented by K. West)

GLENN T. TURCHAN, M.A.Sc., P. Eng.

EDUCATION

B.A.Sc. University of Waterloo, Geological Engineering

M.A.Sc. University of Waterloo, Civil Engineering

Health and Safety Courses:

40-Hour OSHA Personal Protection and Safety Training (as per CFR 1910-120),
September 1988 (hazardous waste site safety training)

8-Hour OSHA Site Supervisors and Managers Course Training (as per 29 CFR 1910-120),
March 1989 (hazardous waste site managers health and safety training)

8-Hour Refresher in Personal Protection and Safety (as per 29 CFR 1910-120) (yearly update,
as required)

EMPLOYMENT

2000- Present Project Manager/Executive Vice-President/Executive Committee Member
Conestoga-Rovers & Associates

1995-2000 Project Manager/Principal, Conestoga-Rovers & Associates

1994-95 Associate, Project Manager/Coordinator, Conestoga-Rovers & Associates

1989-93 Project Manager/Coordinator, Conestoga-Rovers & Associates

1987-89 Project Engineer, Conestoga-Rovers & Associates

1985-86 Engineering Assistant, Conestoga-Rovers & Associates

AFFILIATIONS/DESIGNATIONS

- Professional Engineers Ontario (PEO #90212960)
- "Qualified Person" under Ontario Regulation 153/04 to submit Record of Site Conditions to the Environmental Site Registry in Ontario

PROFILE OF PROFESSIONAL ACTIVITIES

- Professional Engineer
- Project Engineer/Project Coordinator/Project Manager responsible for environmental due diligence/environmental site assessments/environmental compliance audits/investigations/site characterizations/Remedial Investigations (RI)/Feasibility Studies (FS)/Remedial Design (RD)/Remedial Action (RA)/RCRA Corrective Action/Building Decommissioning/Demolition, Brownfield re-development/environmental liability buyouts/sediment remediation projects/LUST closures/permitting/contract documents/supervision and contractor oversight
- Remedial Investigation/Feasibility Studies (RI/FS) at the following sites:
 - Willow Run Sludge Lagoon, Washtenaw County, Michigan

- Willow Run Creek Site, Washtenaw County, Michigan
- WDE Sanitary Landfill, Andover, Minnesota
- Nepera Inc. Plant Site, Harriman, New York
- Nepera Inc. Former Lagoon NPL Site, Maybrook, New York
- Fons Landfill Site, Washtenaw County, Michigan
- Old Wayne Landfill Site, Washtenaw County, Michigan
- Textile Road Site, Rawsonville, Michigan
- Metamora Landfill Site, Lapeer County, Michigan
- Highway 48 Site, Stouffville, Ontario
- Sterling Drug Site, Cincinnati, Ohio
- National Airport Site, Westland, Michigan
- Remedial Design/Remedial Action (RD/RA) at the following sites:
 - Metamora Landfill Site, Lapeer County, Michigan
 - G&H Landfill Site, Utica, Michigan
 - Willow Run Creek Site, Washtenaw County, Michigan
 - Fons Landfill Site, Washtenaw County, Michigan
 - Old Wayne Landfill Site, Washtenaw County, Michigan
 - SMDA Sites 9/9A Macomb Township, Michigan
 - Pontiac Sites (various), Pontiac, Michigan
 - Former Rockwell International Site, Allegan, Michigan
 - Middleground Landfill, Bay City, Michigan
 - Ford, Mexico City, Mexico
 - Krejci Site, Cleveland, Ohio
- RCRA Corrective Action RFI/CMS/IM/CMI:
 - GM Centerpoint Business Campus, Pontiac, Michigan
 - Detroit Diesel Corporation Site, Redford Township/Detroit, Michigan
 - AtoFina, Riverview, Michigan
 - GM Powertrain, Bedford, Indiana
 - GM SMC, Saginaw, Michigan
 - Former Peregrine (US) Inc., Flint, Michigan
 - GM Truck Group, Pontiac, Michigan
 - GM Pontiac North Campus, Pontiac, Michigan
 - Edwards Oil, Detroit, Michigan
 - Former Delphi Chassis, Livonia, Michigan
- Removal Action Projects:
 - US Liquids Site, Detroit, Michigan (Time Critical)
 - Chrysan Industries, Detroit, Michigan (Time Critical)

- Former Rockwell International Inc., Allegan, Michigan (Time Critical)
- Former Sybill Inc., Detroit, Michigan (Time Critical)
- Former Pellestar, Marquette, Michigan (Time Critical)
- GM Powertrain, Bedford, Indiana (Time Critical)
- General Oil Site (Ford Pond Operable Unit), Northville, Michigan (Time Critical)
- Textile Road Site, Ypsilanti, Michigan (Non-Time Critical)
- Kanawha River Dioxin Study (Non-Time Critical)
- Overview and Critique of U. S. EPA or State Lead RI/FS or RD/RA programs at the following Superfund sites:
 - Pristine Site, Cincinnati, Ohio
 - G & H Landfill Site, Utica, Michigan
 - Metamora Landfill Site, Lapeer County, Michigan
 - MIG/Dewane Landfill Site, Belvidere, Illinois
 - Michigan Chrome and Chemical, Detroit, Michigan
- Sediment Investigation/Remediation Projects:
 - Willow Run Creek, Washtenaw County, Michigan (370,000 cy)
 - Harris Lake, Pontiac, Michigan, (25,000 cy)
 - GM Powertrain, Bedford, Indiana (>500,000 cy)
 - Kanawha River, West Virginia
- Environmental Site Assessments:
 - Completed over 250 ESA projects in Canada and the United States involving industrial and commercial facilities
- Acquisition/Divestiture Environmental Due Diligence (Example Deals):
 - Environmental due diligence support related to purchase of five commercial laundry plants
 - Environmental due diligence support related to acquisition of 14 gravel pit operations
 - Environmental due diligence support on purchase of 2 radio stations
 - Environmental due diligence support in divestiture of a shopping mall located in Bloomfield Township, Michigan
 - Environmental due diligence support to GM related to various properties at the Centerpoint Business Campus and Clark Street Technology Park (both in Michigan)
 - Environmental due diligence support to GM in divestiture of two Delphi plants in Livonia, MI and Flint, MI to Peregrine (US) Inc.
 - Environmental due diligence support related to purchase of 11 cemeteries
 - Environmental due diligence support to GM in divestiture of five plants in Grand Rapids, Auburn Hills and Warren to Lear Corporation
 - Environmental due diligence support to GM in divestiture of three Delphi plants in Oshawa, St. Catherine's, and New Brunswick, New Jersey
 - Environmental due diligence support to Oxford Automotive in acquisition of two plants in Ohio and two plants in Michigan from Howell Industries Inc.

- Environmental due diligence support to Oxford Automotive in acquisition of one plant in Indiana and two plants in Ontario from Eaton-Yale
- Environmental due diligence support to Delphi Automotive Systems in leasing facilities in Rochester Hills, Michigan and Duncan, South Carolina
- Environmental due diligence support to Ferrous Processing and Trading in acquisition of scrap yard facilities in Windsor, Ontario (3), Detroit (2), Warren, and Flint
- Environmental due diligence support at 300+ commercial properties throughout the US on behalf of a "Building Supply" company
- Environmental due diligence support at 100+ agricultural facilities throughout the US
- Environmental due diligence support to Trident Properties on acquisitions of various properties throughout Michigan
- Baseline Environmental Assessments (Michigan P.A. 451, Part 201):
 - Northline L.L.C., Romulus, Michigan
 - Equipment Supply, Romulus, Michigan
 - Schlafer Iron and Steel Company, Detroit Michigan
 - TBS Industrial Recycling, Inc., Pontiac, Michigan
 - Mason Iron and Metal, Detroit, Michigan
 - Grand Traverse Overall Supply, NPL Site, Traverse City, Michigan
 - Ferrous Processing Inc. (various sites), Detroit, Michigan
 - Former New Holland Site, Troy, Michigan
 - St. Marys Cement Plant, Detroit, Michigan
 - Former Paper Mill, Rochester, Michigan
- Brownfield Redevelopment Projects:
 - Clark Street Technology Park, Detroit, Michigan
 - Centerpoint Business Campus, Pontiac, Michigan
 - Pontiac North Campus, Pontiac, Michigan
 - Northline L.L.C., Romulus, Michigan
 - Former New Holland Site, Troy, Michigan
 - Textile Road Site, Ypsilanti Township, Michigan
 - Former Delphi Chassis, Livonia, Michigan
 - Former Libbey Glass Site, Wallaceberg, Ontario
- Environmental Decommissioning:
 - Support to GM in development of standard guidelines and specifications for plant decommissioning
 - Building Decommissioning Assessments at the following sites:
 - GM Brea, California
 - GM Moraine facility, Moraine, Ohio
 - Buick City, Flint, Michigan
 - 5,000,000 square feet

- Oldsmobile Site, Lansing, Michigan
 - 500,000 square feet
- Oldsmobile Site, Lansing, Michigan
 - 1,000,000 square feet
- GM Desert Proving Grounds, Mesa, Arizona
 - 500,000 square feet on 7,500 acres
- GM Metal Fabrication Division, Kalamazoo, Michigan
 - 1,500,000 square feet on 350 acres
- Delco Electronics, Kokoma, Indiana
 - 750,000 square feet
- GM Metal Fabrication Buildings 2, 5, 12, Pontiac, Michigan
 - 750,000 square feet
- Delphi, Rochester, New York
 - 350,000 square feet
- Former Peregrine (US) Inc., Flint, Michigan
 - 2,000,000 square feet
- GM Allison, Indianapolis, Indiana
 - 250,000 square feet
- Risk Assessment Evaluations
- Landfill Gas Management/Recovery/Utilization Projects:
 - Brock West Site, Pickering, Ontario
 - Keele Valley Site, Maple, Ontario
- Supervision of drilling and groundwater monitoring well installation
- Preparation and representation of technical information to representatives of State and Federal Governments
- Litigation Support
- Support to various clients on a variety of litigation matters

PUBLICATIONS

- "Landfill Gas Collection and Utilization", paper presented at *Canadian Geotechnical Society, Southern Ontario Section, Solid Waste Symposium*. Toronto, Ontario, March 9, 1988 (with A.J. Crutcher, A.W. Van Norman)
- "Overview on Problems of Pond Construction", paper presented at *Prevention & Treatment of Groundwater and Soil Contamination in Petroleum Exploration and Production* Calgary, Alberta, May 10, 1989 (with D.H. Haycock, S.T. Ruminsky)
- "Soil Remediation Issues", presented at *Third Annual National Meeting and Conference of the Academy of Certified Hazardous Materials Managers*, July 25 - 28, 1989, Indianapolis, Indiana (with A.W. Van Norman)

- "Groundwater Cutoff Walls: Application at Hazardous Waste Sites", paper presented at *Focus Conference on Eastern Regional Groundwater Issues*, National Water Well Associations, Kitchener, Ontario, October 18, 1989 (with A.W. Van Norman, I.K. Richardson)
- "Remediation Approaches and Technologies for Potential Application to PCB Contaminated Sludge Sites", paper presented at *SUPERFUND XIV*, December 1993, Washington, D.C., (with J. Daniel, E. Peterson, K. Waskiewicz, A.W. Van Norman)
- Carey, G.R., M.G. Mateyk, G.T. Turchan, E.A. McBean, and J.R. Murphy, 1996, "Intrinsic Remediation as an Effective Alternative to Groundwater Pump-and-Treat: A Case Study", submitted for publication in *NWWA/ API Conference on Proceedings of Petroleum Hydrocarbons & Organic Chemicals in Ground Water*, Houston, Texas.
- Carey, G.R., M.G. Mateyk, E.A. McBean, G.T. Turchan, and F.A. Rovers, 1996, "Application of a Technical Protocol for Evaluating Intrinsic Remediation at Landfill Sites", submitted for publication in *Proceedings of the Madison Waste Conference*, Madison, Wisconsin.
- Carey, G., M. Mateyk, E. McBean, G. Turchan, J. Campbell and F. Rovers (1996): "Multiple Lines of Evidence for Evaluating Intrinsic Remediation at a Landfill Site", presented at the 19th Annual Madison Waste Conference, Madison, Wisconsin, September 1996
- Carey, G., Michael Mateyk, Glenn Turchan, Edward McBean, Frank Rovers and Richard Murphy (1996): "Application of an Innovative Visualization Method for Demonstrating Intrinsic Remediation at a Landfill Site", presented at the 1996 Petroleum Hydrocarbons Exposition, Houston, Texas, November 1996
- "Modelling Landfill Cap Influence on Natural Attenuation", presented at Sixth International Landfill Symposium, Cagliari, Sardinia, Italy, October 13-17, 1997 (with G. Carey, P. Van Geel, E. McBean, G. Turchan)
- "Site Reuse/Brownfield Redevelopment in the Detroit Empowerment Zone" technical paper presented (by K. West) at Superfund XVIII Conference, Washington, D.C., December 4, 1997 (co-authors(K. West, B. Pitlock, K. Richards, G. Turchan, S. Anderson)

Reports:

- "Groundwater Cutoff Walls: Applicability, Design and Implementation at Hazardous Waste Sites", in *partial fulfillment of the requirements for the degree of M.A.Sc.*, Department of Civil Engineering, University of Waterloo, March 1, 1990

Presentations:

- "Environmental Engineering in the 90's", presentation at Professional Engineers Ontario - Undergraduate Engineering Students Conference 1994, January 28, 1994 (with J. Daniel, G. O'Neill)
- "Center Point Business Campus Redevelopment", presentation at Industrial Site Recycling Conference - Phoenix Award Finalist, Pittsburgh, Pennsylvania, April 14, 1998 (presented by K. West)